

NOV 2 1 2008

Premarket Notification 510(k) Summary

Assigned 510(k) Number:

1. Submitted by:

Name:

Biomedical Diagnostics S.A (bmd)

Contact Person:

Christelle COURIVAUD

Regulatory Affairs Manager

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Establishment

Registration Number:

3003935253

US Agent correspondent:

Hoppe Regulatory Consultants

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2. Device Name

Trade/Proprietary Name:

FIDISTM THYRO

MX002 -

FIDISTM

THYRO:

Detection test of

Common/Usual Name:

autoantibodies directed against thyroperoxydase (TPO)

and thyroglobuline (TG).

Classification Name:

Immunology and Microbiology Devices

3. Predicate Devices

510K Number	Device Classification Name	Manufacturer Name	
K905485	IMMUNOWELL	General Biometrics, INC	
	THYROGLOBULIN TEST		
K905486	IMMUNOWELL TPO		
	(MICROSOME) TEST	General Biometrics, INC	



4. Intended use of the device

The FIDISTM THYRO kit is a semi-quantitative homogeneous fluorescent-based microparticles immunoassays using flow cytometry readings. It is designed for the detection of antibodies directed against thyroperoxydase (TPO) and thyroglobuline (TG).

The presence of these antibodies can be used to aid in the diagnosis of auto-immune thyroid pathologies (Grave's disease and Hashimoto's thyroiditis).

5. Description of the Device

The assay kits consist of:

- a vial of color-coded microspheres coupled with thyroperoxydase (TPO) or thyroglobulin (TG)
- a ready to use anti-human IgG coupled to phycocrythrin,
- a ready to use calibrator titered for the specificity,
- a positive control IgG to be diluted,
- a negative control to be diluted,
- a 10X concentrated PBS-Tween.

Rk: Calibrators, positive and negative controls are diluted human sera.

6. Summary of the technological characteristics of the device compared to the predicate device

The **FIDIS™** System is a fully integrated and automated system for immunodiagnostic testing.

FIDIS™ System comprised of FIDIS flow cytometer, XYP platform for automatic sampling into the analyser, the analyzer itself, a SD pump, some FIDIS™ kits and a software MLX-BOOSTER.

The **FIDIS™ THYRO** kit resembles traditional EIA and allows the detection and identification of antibodies against thyroperoxydase (TPO) and thyroglobuline (TG).

- 1. Diluted patient sera and microsphere suspension are thoroughly mixed in the 96 well microtiter plate. TPO or TG specific antibodies in the patient sera, if present, bind to the immobilised antigen on the beads. Any unbound material is removed by performing a wash step.
- 2. Phycoerythrin-conjugated goat anti-human IgG is added to the plate and a further incubation performed. The conjugated anti-human IgG binds to the TPO or TG specific antibodies immobilised on the microsphere surface to form an antigen/antibody complex.

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3. The bead suspension is then analysed by the FIDISTM Instrument and reactions are directly calculated in biological units using specific data software (MLX-BOOSTER).

The **FIDIS**TM **Instrument** is able to distinguish the specific color-coded of the microsphere and it could associated the microsphere type with the individual tested antigen.

The **FIDISTM Instrument** could quantify the fluorescence of the antibody captured by each microsphere. Measurement of the fluorescent signal from the final reaction complex allows the quantification of the presence or absence of autoantibodies.

7. Testing

The comparability of predicate devices and new devices is supported by a data set including:

- results obtained within a comparison study analysing positive, equivocal and negative sera
- results obtained for samples from apparently healthy subject (normal population)
- results obtained for samples from samples with potential biological cross reactivity

8. Conclusions

In conclusion, all available data support that the new devices, FIDISTM THYRO kit is substantially equivalent to the predicate devices.

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Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Biomedical Diagnostics (BMD) SA c/o Ms. Christelle Courivaud Regulatory Affairs Manager Actipole 25, 4-6 Bld de Beaubourg 77435 Marne-La-Vallée Cedex 2 France

NOV 2 1 2006

Re: k061794

Trade/Device Name: FIDISTM THYRO Regulation Number: 21 CFR 866.5870

Regulation Name: Thyroid Autoantibody Immunological Test System

Regulatory Class: Class II Product Code: JZO, JNL Dated: June 16, 2006 Received: June 26, 2006

Dear Ms. Courivaud:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0484. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Robert L. Becker, Jr., M.D., Ph.D.

Director

Division of Immunology and Hematology Devices Office of In Vitro Diagnostic Device Evaluation and Safety Center for Devices and Radiological Health

Enclosure

510(k) Number (if Known): k06179	94			
Device Name:	FIDIS TM THYR	<u>.o</u>		
Indications For Use:				
microparticles immunoassay using	flow cytomet	ive homogeneous fluorescent-based ry readings. It is designed for the dase (TPO) and thyroglobuline (TG).		
Clinical utility:				
The test system is used on serum a thyroid pathologies (Graves' disease clinical findings and other laboratory	se and Hashimo	oto thryroiditis), in conjunction with		
The FIDIS™ THYRO kit is to be used on FIDIS™ Analyser, software and washer.				
Prescription Use X (Part 21 CFR 801 Subpart D)	AND/OR	Over-The-Counter Use(21 CFR 801 Subpart C)		
(PLEASE DO NOT WRITE BELOV IF NEEDED)	W THIS LINE -	CONTINUE ON ANOTHER PAGE		
Concurrence of CDRH, Of	fice of In Vitro	Diagnostic Devices (OIVD)		

Office of In Vitro Diagnostic Device Evaluation and Safety

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